NIGHT OWL

4 CHANNEL H.264 VIDEO SECURITY KIT

www.NightOwlSP.com

INSTRUCTION MANUAL

FOR K-4 SERIES SECURITY KITS

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FCC RADIATION NORM:

FCC

This equipment has been tested and found to comply with limits for Class B digital device pursuant to Part 15 of Federal Communications Commission (FCC) rules.

FCC Compliance Statement

These limits are designed to provide reasonable protection against frequency interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed or used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in television reception, which can be determined by turning the equipment off and on. The user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected to.

CAUTION!

The Federal Communications Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PACKAGE CONTENTS:

Your new Security Camera and DVR Kit will ship with the following items.

K-44500-C

1x 4 Channel H.264 DVR with 500GB HD
1x DVR Power Adapter
1x Video Output Cable (BNC to RCA)
1x RJ-45 Cable (Ethernet)
1x Mouse
1x Remote Control (Batteries Included)
4x Cameras with Stands and Mounting Hardware
1x 4-Way Power Splitters
4x 60 Feet of Camera Cables
1x Camera Power Adapter
1x Quick Set-Up Guide
1x User Manual
1x Installation Card
1x Driver CD

K-42500

1x 4 Channel H.264 DVR with 500GB HD
1x DVR Power Adapter
1x Video Output Cable (BNC to RCA)
1x RJ-45 Cable (Ethernet)
1x Mouse
1x Remote Control (Batteries Included)
2x Cameras with Stands and Mounting Hardware
1x 2-Way Power Splitters
2x 60 Feet of Camera Cables
1x Camera Power Adapter
1x Quick Set-Up Guide
1x User Manual
1x Installation Card
1x Driver CD

SYSTEM REQUIREMENTS:

Please be sure the computer that you install the included software with complies with the following specifications:

- IBM PCs or 100% Compatibles
- Windows® XP, Vista, 7
- Internet Explorer 7 or Newer Web Browser Software
- CD-ROM Drive (for software installation)

SAFETY INSTRUCTION:

1. **Use proper power source.**

   Do not use this product with a power source that applies more than specified voltage (100-240V AC).

2. **Never insert any metal into the DVR or any openings.**

   Putting metal into the DVR case can cause danger of electric shock.

3. **Do not operate in wet or dusty area.**

   Avoid places like a damp basement or dusty hallway.

4. **Do not expose this product to rain or use near water.**

   If this product accidentally gets wet, unplug it and contact technical support immediately.

5. **Keep product surfaces clean and dry.**

   To clean the outside case of the DVR, use a lightly dampened cloth (no solvents). Do not use any cleaning solutions or cleaner.

6. **Provide proper ventilation.**

   Use in well ventilated area to avoid overheating of the device.

7. **Do not attempt to remove the top cover.**

   If any abnormal operation is observed, unplug it immediately and contact technical support.

8. **Do not attempt to remove the top cover.**

   Warning: You may be subjected to severe electrical shock if you remove the cover of the DVR.

9. **Handle DVR box carefully.**

   If you accidentally drop your DVR on any hard surface, it may cause a malfunction. If the DVR doesn't work properly due to physical damage, contact an authorized dealer for repair or exchange.

10. **Recommended to use with UPS (Uninterruptable Power Supply)**

    Connecting your DVR and cameras to a UPS allows continue operation even during power outages. The duration of power out usage time depends on types of UPS used.

11. **Make sure there is good air circulation around the unit.**

    This DVR system uses a hard drive for video storage, which generates heat during operation. Do not block air holes/vents (bottom, upper, sides and back) of the DVR that reduce the generated heat while the system is running. Install or place this product in a well ventilated area.

CHAPTER 1: DVR FEATURES

Other Features：

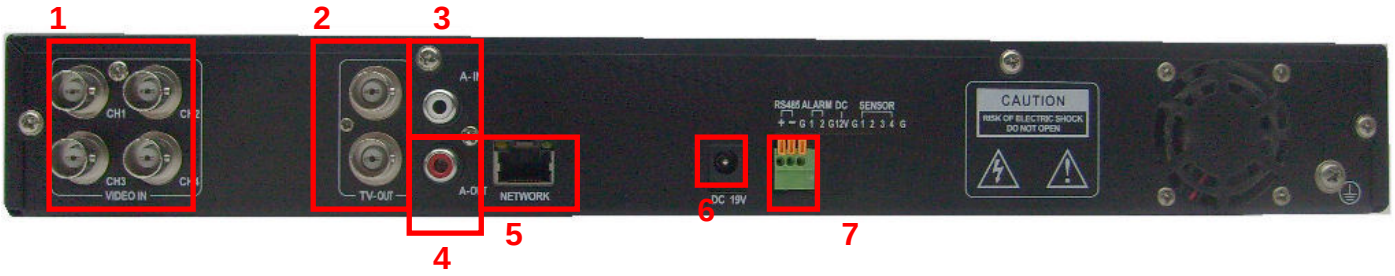
- H.264 compression
- Real time recording on 4 channels
- USB Backup to flash drive
- Triplex operation: view, record, playback simultaneously
- Security Certified Hard Drive pre-installed
- Easy control with USB mouse
- Instant viewing using Windows® Mobile™, Symbian® S60 Version 3 and iPhone®
- Internet Remote Functions*: View, Search & Playback, Backup and Setup
- Email alerts with JPEG attachment

CHAPTER 2: LAYOUT

2.1 Front Panel (Please refer to actual product for detail)

Item	Buttons / Indicators	Marks	Functions
1	Power Button		Press to Power on DVR, Press again to Power Off.
2	Start Rec		Start Manual recording
3	Stop Rec		Stop Manual Recording
4	SEARCH		Press to open the video search screen
5	MUTE		Press to disable audio of the DVR
6	Display		Press to switch quad and individual channel display on screen
7	MENU		Press to open the menu
8	PTZ		Move to PTZ (Pan Tilt Zoom) control mode
9	ESC		Press to exit menu or go back to previous menu.
10	REC Indicator		Turns on when DVR is recording
11	Network Indicator		Turns on when Network connection is connected and functioning properly
12	Alarm Indicator		Turns on when malfunction is detected or alarm goes off.
13	Navigation		Press to navigate in menus and select options.
14	Enter	**Enter**	Press to select an option or enter into a sub menu
15	Power Indicator		Turns on when power is properly connected and DVR is turned on.
16	USB Data Port		For connecting USB Data Storage devices such as flash drive for backup or system update
17	USB Mouse Port		For connection USB Mouse

2.2 Rear Panel (Please see actual product for detail)



Item	Physical ports	Connection method
1	Video inputs	Connect CH1-4 (BNC interface)
2	Video outputs	Connect monitor output (BNC interface)
3	Audio input	1 Channel (RCA interface)
4	Audio output	Connect signal output (RCA interface)
5	Ethernet Port	Connect intranet, internet (RJ45 interface)
6	Power Port	Connect power supply - DC12V 3A
7	PTZ	Outputs for connecting Pan Tilt Zoom enabled camera

2.3 Remote Control

The remote control is the secondary input device for navigating the system's interface.

To use the remote control:

⏻	
🔇	Press to disable audio of the DVR
1-4	Channel Select 1-4
5-9 & 0	Digital Key 5-9, 0
PTZ	Move to PTZ (Pan Tilt Zoom) control mode
⊞	Press to switch quad and individual channel display on screen
✥	Press to navigate in menus and select options.
	Press to select an option or enter into a sub menu
⮌	Press to exit menu or go back to previous menu.
🕮	Press to open the menu
●	Start Manual recording
○	Stop Manual Recording
▶	Play
⏸	Pause / Playback
◀◀	Rewind
▶▶	Forward
▶|	Slow Motion / Frame by Frame
F1	Function Button 1
F2	Function Button 1

2.4 Mouse Operation

You can use a mouse instead of the front panel buttons or remote control to navigate the operation of your DVR

The mouse is the primary input device for navigating system menus.

To use a mouse with the system:

1. Connect a USB mouse to the **Top USB MOUSE port** on back panel of the system.

   NOTE: Only the bottom USB port on the back panel is designed for data backup to a USB flash drive. Do not connect a USB flash drive to the top USB port on the rear panel.

2. Use the mouse buttons to perform the following:

   a. **Left-Button**: Click to select a menu option; during live viewing in split-screen, double-click on a channel to view the selected channel in full-screen; double-click the channel again to return to split-screen view

   b. **Right-Button**: Click to open the Sub-Menu

3. **Scroll-Wheel**: No function

Chapter 3: DVR/Camera installation

3.1 Connecting the DVR to a TV or Monitor

Using the supplied BNC to RCA connector

1. Connect the BNC to RCA connector to the back of the DVR labeled Video Output (refer to Chapter 2.2, Rear Panel Picture)
2. Connect the other end of the cable to an open RCA VIDEO input on your TV or Monitor
3. Select the appropriate video input on your TV or Monitor to view the DVR

NOTE: Your DVR must be powered on so you can view on your TV or Monitor.

3.2 Connecting the Power Supply

1. Plug the provided power supply into the back of the DVR labeled "DC12V"
2. Plug the other end of the power Adapter into any 110V outlet within your home or business.

NOTE: Connecting your DVR and Cameras power source into a UPS or battery backup system will provide you recorded coverage after power failures. Time depends on type of UPS used.

NOTE: Ensure the cable is pushed all the way into the power supply. Otherwise the DVR will not power on!!

3.3 Connecting the Cameras

NOTE: Prior to mounting the cameras to their desired destination, please ensure all cameras are working. Perform these steps near the DVR. Once all cameras are up and running, then you can lay the cables and mount the cameras to their desired location.

1. Each camera comes with 60ft. of cable per camera. Using one cable per camera, plug each BNC connector of the camera into the 60ft cable.
2. Plug the other end of the cables into the back of the DVR labeled "CH1, CH2, CH3 or CH4.
3. Connect the provided power splitter to the DC jacks of the cameras, and plug the power splitter into the camera adapter, then plug the camera adapter to any 110V outlet or UPS.

CHAPTER 4: DVR START UP

4.1 System Initialization

After connecting the power adapter and turning on the power, the system will boot-up and start initializing.

4.2 Main Interface

After initialization, the main interface will load. When there are video inputs, the interface will display live images from the cameras. In the main interface, if you use the mouse to double-click the live image of any channel, the image will be maximized to full screen, by double-clicking again, the display will return to quad mode displaying all cameras; clicking the right button of the mouse, will load the Pop-up Menu; by clicking the left button of the mouse to select options; when clicking any area outside the menu, you will close the Pop-up menu.

USING THE ONSCREEN DISPLAY

Use the system's graphical onscreen display to navigate menus and configure options and settings.

1. **Date & Time**: Displays the date and time on the system
2. **Channel Title**: Displays the customizable name for the channel.
3. **Record Status**: Displays the current recording status of the system: R=recording); M=motion recording; A=alarm recording; H= HDD problem **Channel number**: Displays channel number.

NOTE: By default, passwords are **disabled** on the system. You do not need to enter a password when accessing any system menus. However, for security purposes, it is highly recommended to enable passwords on the system using the Password Menu.

For details, see "Managing Passwords"

CHAPTER 5: DVR MENU AND OPTIONS

Mouse Only

When using the mouse, use the Sub-Menu to access several system options, including the Main Menu.

To open the Sub-Menu:

Right-click anywhere onscreen to open Sub-Menu.

Select one of the following options:

1. **MAIN MENU**: Opens the main system menu
2. **KEYLOCK**: If you have password enabled, select this to activate password protection
3. **CHN SWITCH**: Choose between Quad Screen, or display any single channel of the inputs
4. **VIDEO SEARCH**: Open the Search Menu to view recorded video
5. **PTZ**: Opens the PTZ control menu
6. **MUTE**: Select to disable audio function of the DVR
7. **MANUAL REC**: Start manual recording
8. **STOP REC**: Stop manual recording

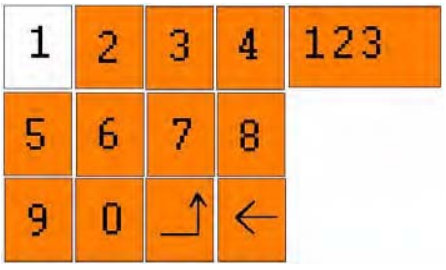
To close the Sub-Menu, click anywhere onscreen.

Using the Virtual Keyboard – Mouse Only

When using the mouse, you can input certain values using the onscreen virtual keyboard.

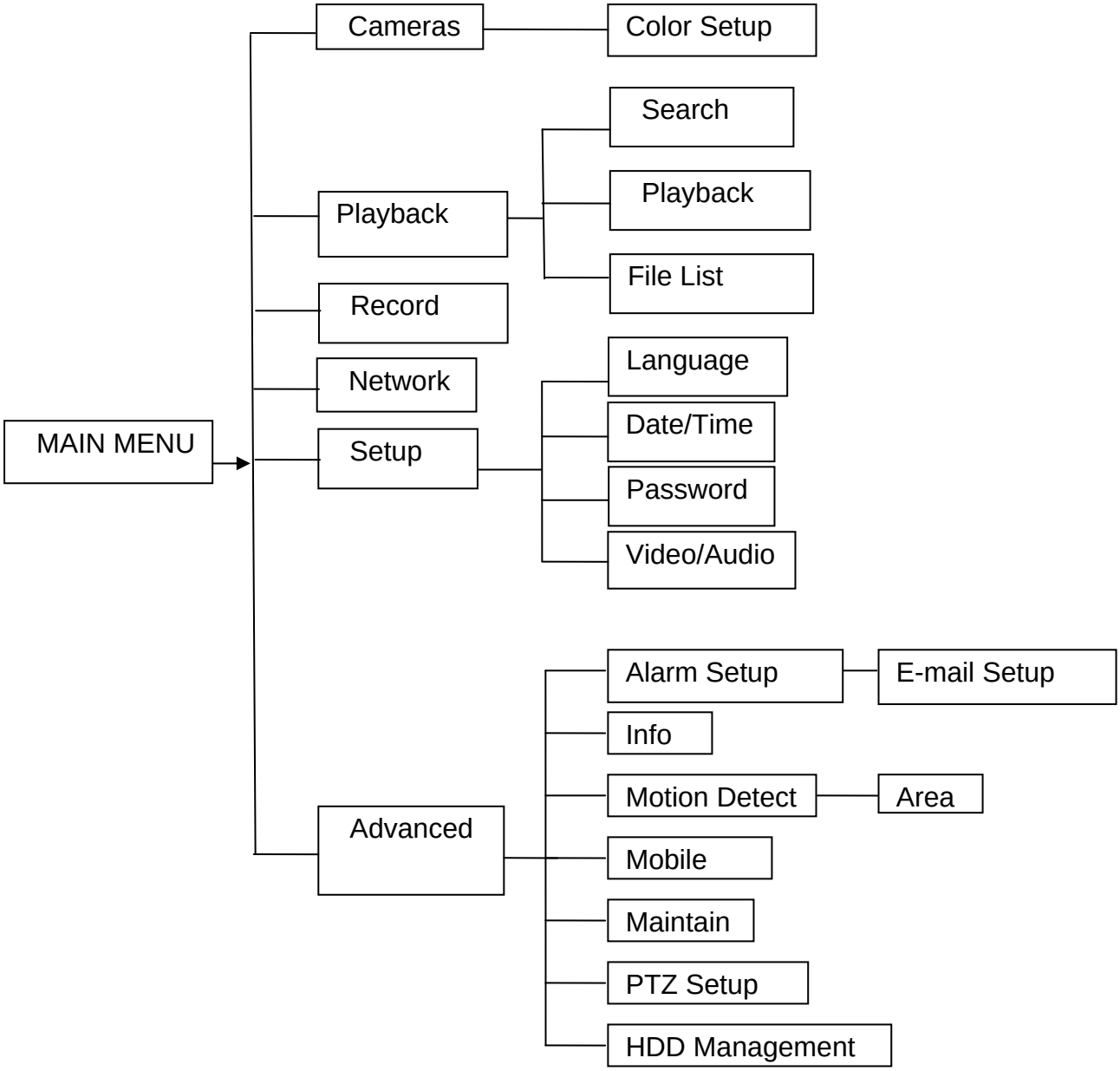
You will need to use the Virtual Keyboard when entering your User ID and Password.

To use the Virtual Keyboard:



1. Click on an option or field, such as the User ID and Password fields.
2. Click **0~9** to enter the desired digit.
3. Click 123 to switch between numerals, upper and lowercase letters, and other characters (only for certain options)
4. Click ← to Backspace/Delete.
   NOTE: The buttons will turn from orange to white when you select the button with the mouse cursor.
5. Click ↵ to enter/confirm and close the Virtual Keyboard.

5.1 Main Menu Preview

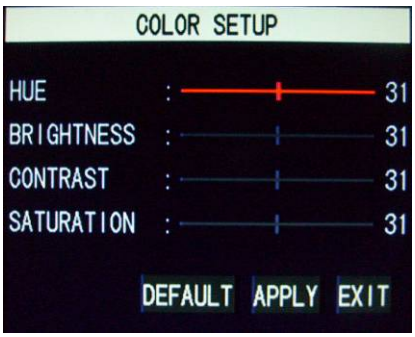


5.2 Main Menu

Right-click the mouse, a pop-up menu will be displayed on the screen. Click "MAIN MENU" button on the pop-up menu to enter into Main Menu. You can also use the Menu button on the front panel to open the Main Menu. When using the front panel buttons, use the navigation buttons to move in the menu, and use the Enter button to select the icon. Use the ESC button to return to previous window. In Main Menu, you can change settings such as Camera, Playback, Record, Network. Set system settings, such as Language, Date/Time setting, User password, Video/Audio, and Advanced settings such as Alarm, Motion Detection, Mobile Phone, PTZ (Pan Tilt Zoom) Control etc. You can also access System Information, System Maintenance etc.

5.2.1 Camera setup

Select Main Menu → Cameras to open the CAMERA SETUP menu. You can set up the name display and position display of each channel, You can also adjust image brightness, saturation, contrast and hue settings of each channel by entering the "COLOR" Menu and set up whether each channel can be previewed or not under Live display and/or Recording mode.
Note: that the name of each channel supports up to eight characters.



COLOR SETUP Menu allows you to adjust image brightness, saturation, contrast and hue of each channel. Click "APPLY" to and then click "OK" to save the adjusted settings. Click "EXIT" to cancel the modification, or click "DEFAULT" to restore all settings to the factory default settings.

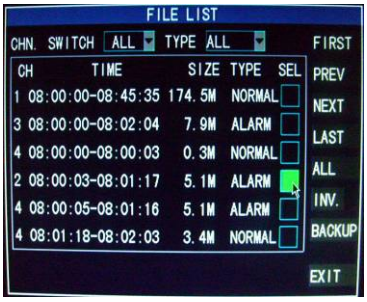
5.2.2 Playback

To access the VIDEO SEARCH menu, select Main Menu → PLAYBACK to open the RECORD SEARCH menu.

To search for a file, enter specific date and click "SEARCH", you will find all the recordings of that day. You can play video Forward at 2x, 4x, and 8x speeds, Slow play at 1/2x, 1/4x, 1/8x, or normal play, pause and play frame by frame using the playback control bar, and adjust volume by clicking or sliding tune control bar. When playback is finished, system will return to previous menu.

To search by file, click the "FILE LIST" button. This option will allow you to view all of the available files by channel and type (all, normal, or alarm).

You can select a file and push the SEL button to playback the file, or use the FWD button and down button to select options or backup the recorded file you selected. You can also put a check mark in the box at the end of multiple files if you want to backup more then one file at a time.



First：Indicates the first page of recording history you have searched. When you view other pages, clicking [First] button brings you back to Page one.

PREV (Previous page): When viewing event list, clicking "Previous page" button will take you back to page before the one you are currently viewing (except the first page).

NEXT (Next page): When viewing event list, clicking "Next page" button will take you to the page after the one you are currently viewing (except the last page).

LAST (Last page): Indicates the last page of recording history you have searched. When you view other pages, clicking the "Last page" button will take you to the Last page of the searched files.

ALL (Select All): Allows you to select all of the events on the current page.

INV (Select Invert): Allows you to revert the selected and unselected events on the current page except those you have currently selected.

BACKUP: If you want to backup one recording from the file list, select the file and click "BACKUP". When the backup is complete, you will be notified. Please click "OK".

5.2.3 Backup

Use the File List sub-menu to find recorded video on your system and copy it to a USB flash drive (not included).

NOTE: The system is compatible with most major brands of USB flash drives, with capacities from 256 MB to 4 GB or may be higher.

To backup recorded data:

1. Connect an empty USB flash drive to the bottom USB port on the back panel of the system.
2. Open the Search menu and search for recorded data on the system.
3. Click **FILE LIST**.
4. Select the files you want to backup and click the "SEL" box next to the file name, select multiple files if desired. Click **ALL** to select all files; click **"INV"** to deselect all files.

NOTE: The size of each file is shown in the File List menu. Use this to help you find a USB flash drive large enough to hold all the files you wish to backup.

5. Click **BACKUP** from the side-panel to immediately begin copying the files to the USB flash drive.

NOTE: Backup progress appears in the status window. DO NOT remove the USB flash drive during backup.

6. If backup is successful, click **OK** in the confirmation window and then remove the USB flash drive.

NOTE: If there is not enough space on the USB flash drive, the system will display the following: "Space is not enough."

5.2.4 Backup File Data

The system will create a folder on the USB flash drive named RecordFile. The files are saved as .264 files.

Note: Backup file will be in H.264 format, you can convert it to AVI format using the Multimedia Player program that comes with the DVR or through the net-viewer program, so you can use any player that supports AVI format.

5.2.5 Converting Files to AVI:

Use the built-in browser-based remote surveillance software to convert saved video files to AVI. The AVI format allows you to playback the video files in many multimedia players. AVI conversion involves two parts: selecting a file, then converting the file.

To select a file:

1. Open Internet Explorer. In the address bar, enter the IP address of your system.
2. Log in using your **ADMIN password**. If passwords are not enabled on your system, leave the password field **blank**.
3. Click **REPLAY** at the top of the main screen.
4. Use the calendar to select a date and click **REFRESH**.
5. Find a desired file from the File List and double-click to playback the file in the main screen.

To convert the file:

1. With a file selected and played back in the main screen, click **264 TO AVI**. The AVI Convert window will open.

2. Under SOURCE FILE, click to select the .264 file you wish to convert. By default, the file you have already viewed in playback should be selected.
3. Under DESTINATION FILE, click to select the save directory for the converted file. Enter a name for the file. By default, converted files are saved to C:\DVR\.
4. Click **CONVERT**. File conversion begins. The progress bar indicates the status of the conversion.

Click **OK** in the confirmation window.

NOTE: You can view the AVI file in media players such as VLC and DivX Player. The DivX, XviD, or FFDShow codec (not included) is required if viewing AVIs in Windows Media Player.

5.2.6 Record setup

Select Main Menu → RECORD to open the RECORD menu. The adjustable options are as follow:
CHANNEL: Allows you to turn each channel ON/OFF.
RESOLUTION: Choose between "D1" (Highest), "HD1" (Mid), and "CIF" (Low) resolutions.
QUALITY: Choose between "BEST", "FINE", and "NORMAL" resolution.
AUDIO: Allows you to Enable/Disable the audio port if you have audio enabled camera installed.
REC. MODE: Choose between Time Scheduled Record or Always On Recording. Timed recording will allow you to set motion detection or record at a specific time of day/night.
File Length: Select the time limit of each recorded file.

Note: Select Time Schedule Record and the select Schedule to access the below menu.

SCHEDULE recording options include ALL, CH-1, CH-2, CH-3, CH-4 respectively. Please select the option you need to record according to the schedule, the channel you have set will be highlighted.

To setup weekly schedules, click on the box of the corresponding time. Choose between ALARM, TIMED, or NO RECORD and then click on each box in the schedule time line that you want to apply the select record type to. You can also use the "From – To" pull-down menus and Copy button to copy settings from one day to another. After you have completed the schedule, click "SAVE" button to save the settings.

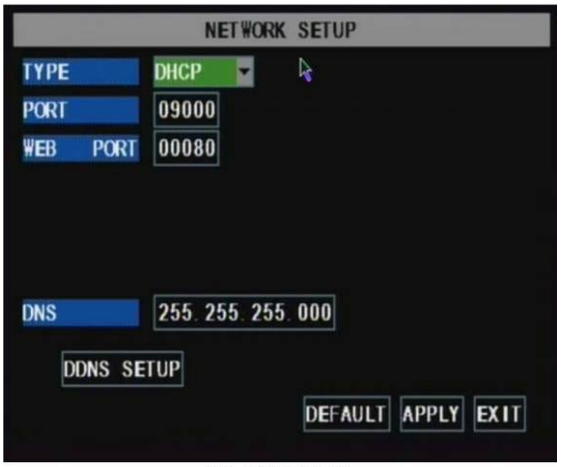
You can also click on the Default button to use the system defaults. The system default settings are:

Alarm all time on = Motion Detection = ON

Note: Under the RECORD SETUP menu and record search menu, original color stands for no recording, "Red" stands for alarm recording, "Green" stands for normal recording and "Blue" stands for the channel and date you have selected.

5.2.7 Network Setup – Intranet (Internal Access)

To access the NETWORK SETUP menu, select Main Menu → NETWORK to open the NETWORK SETUP menu.



If your DVR is connected to a router of your local network (intranet), then you can setup the NETWORK Setup section of the DVR to view the image your DVR is recording remotely using computers connected within your network.

Important Note: You will not be able to access your DVR if your DVR is connected behind two or more routers.

Note: Prior to changing the NETWORK Setup of your DVR, it is strongly recommended that you perform the following tasks:

1. Access the configuration page of your router.
2. Reserve an IP Address in your router that is not used by other computers or devices connected to your internal network.
3. Write down the assigned IP Address of your DVR, Subnet Mask, IP Address of your Router (Gateway) of your DVR for future reference when configuring the DVR.

1. Select STATIC as the network TYPE.
2. Setup PORT and WEB PORT (recommended to leave these at the default values).
3. Enter the IP Address that you have reserved at the beginning of this section into this field to be the unique address of your DVR in your local network.
4. NETMASK: It is recommended to leave the Subnet mask as the default 255.255.255.0.
5. Set the GATEWAY to the IP Address of your router.
6. Enter the DNS (Domain Name Server) Address, Set this to you router's IP address.
7. Click "APPLY" to save your change.

5.2.8 Network Setup – Global Access (Connected Directly to Modem)

To access the NETWORK SETUP menu, select Main Menu → NETWORK to open the NETWORK SETUP menu.

If you would like to access your DVR while you are outside of your home, please follow the instructions below to configure the NETWORK Setup page of your DVR

Important Note: If you are using a DSL modem, the modem must be set to "bridge mode".

Important Note: We will not be able to help you set up the network configurations if you have a RADIUS Server or Network Magic installed.

Note: Prior to changing the NETWORK Setup of your DVR, it is strongly recommended that you perform the following tasks:

1. Find out from your Internet Service Provider (ISP) what kind of service you are using. **Note**: Your DVR supports these three common types of Internet Services: DHCP (Cable Modem), PPPoE (DSL Modem) and Static IP (Fiber Optics). Actual service type may vary, please ask your ISP for the exact service type.
2. Write down the: IP Address provided by your ISP (if your ISP is using Static IP), Subnet Mask, Gateway Address, DNS Address(es) provided by your ISP of your DVR for future reference when configuring the DVR.

DHCP

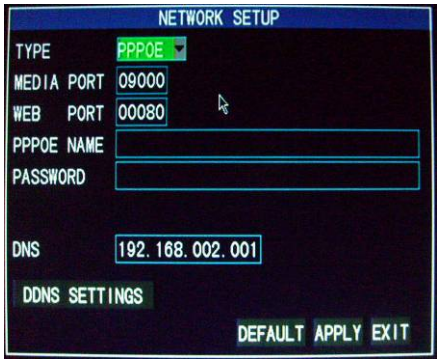
1. If your ISP uses DHCP networking, select DHCP network TYPE.
2. Leave MEDIA PORT at 9000
3. Setup WEB PORT (leave at 80 but some ISPs block inbound traffic on port 80 to prevent web servers so if the DVR cannot be remotely accessed choose a different port number)
4. Click the "DDNS SETUP" Button.

5. You will need to apply for a Dynamic DNS account and register a Domain Name with one of the known DDNS provider. Enter your DDNS Provider's HOST NAME, USERNAME, and PASSWORD in the DDNS SETUP page.

NOTE: If you would like a free DNS account please visit **www.DynDNS.org**

STATIC IP

1. Select STATIC as the network TYPE.
2. Leave PORT at 9000
3. Setup WEB PORT (leave at 80 but some ISPs block inbound traffic on port 80 to prevent web servers so if the DVR cannot be remotely accessed choose a different port number)
4. Enter the IP Address that you have reserved at the beginning of this section into this field to be the unique address of your DVR in your local network.
5. NETMASK: It is recommended to leave the Subnet mask as the default 255.255.255.0.
6. Set the GATEWAY to the IP Address of your router.
7. Set the DNS (Domain Name Server) Address to the IP Address of your router
8. Click "APPLY" to save your changes.



PPPoE

1. If your ISP provides you a Static IP Address, select STATIC as the network TYPE.
2. Leave PORT at 9000
3. Setup WEB PORT (leave at 80 but some ISPs block inbound traffic on port 80 to prevent web servers so if the DVR cannot be remotely accessed choose a different port number)
4. Enter your PPPoE NAME and PASSWORD so your DVR will be able to obtain service from your ISP.
5. Enter the DNS (Domain Name Server) address.
6. You will need to apply for a Dynamic DNS account and register a Domain Name with one of the known DDNS provider. Enter your DDNS Provider's HOST NAME, USERNAME, and PASSWORD in the DDNS SETUP page.

5.2.9 Network Setup – Global Access (Connected through a Router or Firewall)

To access the NETWORK SETUP menu, select Main Menu → NETWORK to open the NETWORK SETUP menu.

If you would like to access your DVR while you are outside of your home or office network, please follow the instructions below to configure the NETWORK Setup of your DVR

Important Note: You will not be able to access your DVR if your DVR is connected behind two or more routers.

Important Note: If you are using a DSL modem, the modem must be set to "bridge mode".

Important Note: We will not be able to help you set up the network configurations if you have a RADIUS Server or Network Magic installed.

Note: Prior to changing the NETWORK Setup of your DVR, it is strongly recommended that you perform the following tasks:

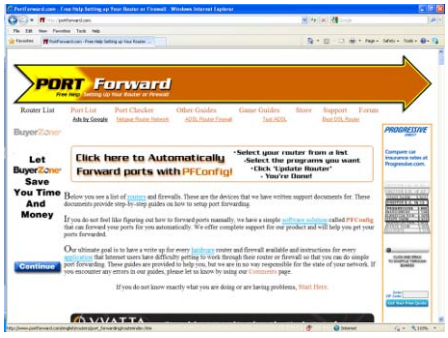
1. Access the configuration page of your router or Firewall.
2. Reserve an IP Address in your router or firewall that is not used by other computers or devices connected to your internal network.
3. Make sure your router is configured properly for computer or devices outside of your local network to access your DVR through your router. To do so, please use the following method(s): NAT (Network Address Translation), Port Forwarding, DMZ (De-Military Zone), DDNS (Dynamic DNS). Please refer to your router or firewall user's manual for reference. **Note**: Improper configuration on the router or firewall will prevent you from accessing your DVR from outside your network.
4. Write down the assigned IP Address of your DVR, Subnet Mask, IP Address of your Router (Gateway) of your DVR for future reference when configuring the DVR.

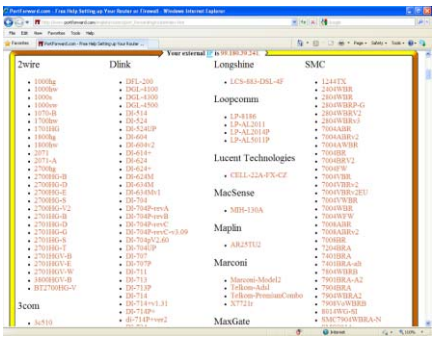
1. Select STATIC as the network TYPE.
2. Leave PORT at 9000
3. Setup WEB PORT (leave at 80 but some ISPs block inbound traffic on port 80 to prevent web servers so if the DVR cannot be remotely accessed choose a different port number)
4. Enter the IP Address that you have reserved at the beginning of this section into this field to be the unique address of your DVR in your local network.
5. NETMASK: It is recommended to leave the Subnet mask as the default 255.255.255.0.
6. Set the GATEWAY to the IP Address of your router.
7. Set the DNS (Domain Name Server) Address to the IP Address of your router
8. Click "APPLY" to save your changes.

Port Forwarding

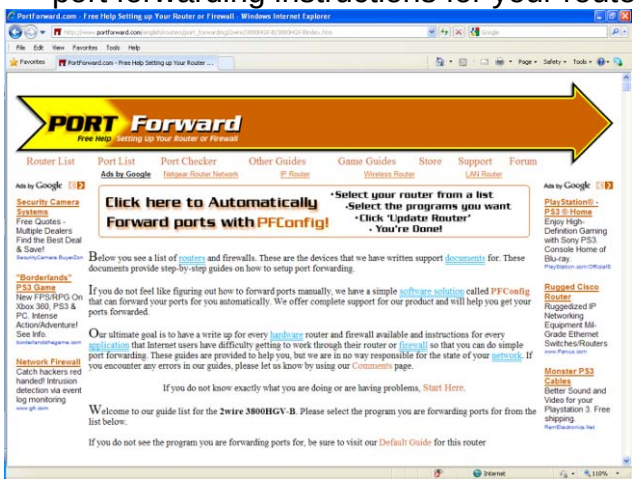
To access the DVR from a remote computer over the internet via internet browser (Internet Explorer).

1. Forward Port 80 and Port 9000 in the router attached to the DVR, to the IP address of the DVR. *If you can't use HTTP Port 80 due to use or your Internet Service Provider is blocking it, use a different port like 1024 as the WEB PORT. When selecting a different port, forward the new port to the IP address of the DVR and change the settings in the DVR Network settings. You will also need to add the new port to the end of the IP address in the browser window. For example, if you use port 1024, you add "**:1024**" to the end of the IP address.
2. For instructions on the most popular routers go to www.portforward.com. Click on the "Routers List" and select your router from the list of router manufacturers by clicking on the brand and model number.





3. On the next page that opens, click on the "Default Guide" link. This will take you to the port forwarding instructions for your router.


PORT Forward
Click here to Automatically Forward ports with PFConfig!
•Select your router from a list
•Select the programs you want
•Click 'Update Router'
• You're Done!

4. When you access the DVR from a remote computer, you also need to use a different address in the Internet Explorer browser window. Instead of entering the IP address of the DVR, you need to enter the public IP address of the router that the DVR Is attached to. You can get this address by going to **www.myipaddress.com** from the computer that is attached to the same router as the DVR. This website will display the box in that shows the IP address you need to use.

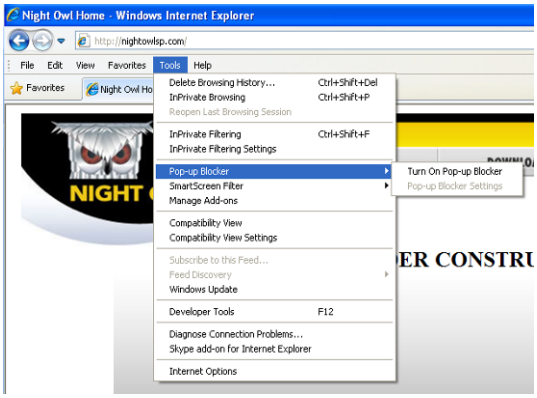
Accessing the DVR through Internet Explorer Browser (IE):

Once the network settings on the DVR match the settings of your router, and you have forwarded the ports needed by the DVR (for remote access over the internet), you need to modify your browser controls.

Note: Ensure you are using Internet Explorer 7 or newer to use this feature (Open IE, Click Help, Select "About Internet Explorer")

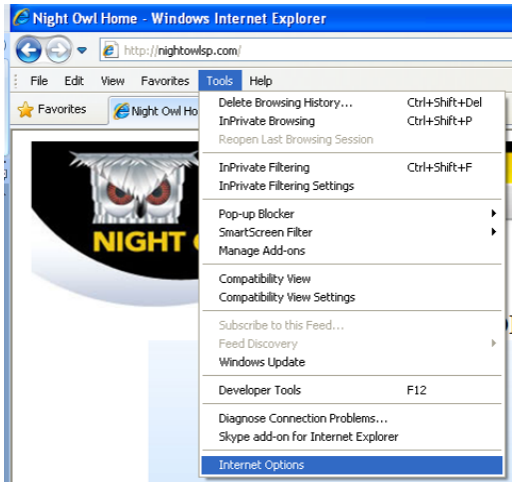
To Modify Internet Explorer controls

1. Turn OFF "**Pop Up Blocker**"



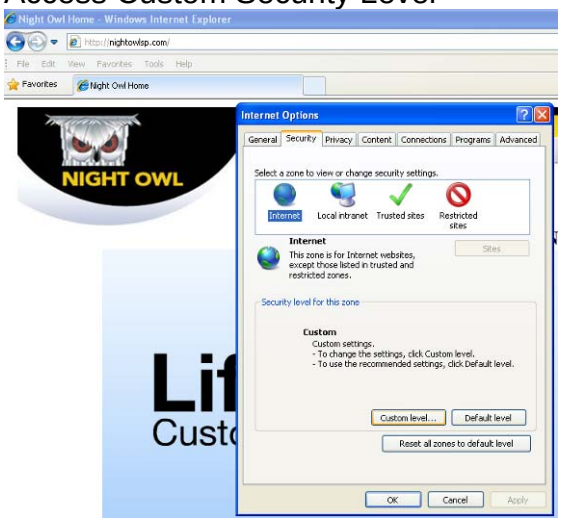
Go to Tools,
Select Pop-up Blocker,
If On please select "Turn Off Pop-up Blocker"

2. Access Active X Controls



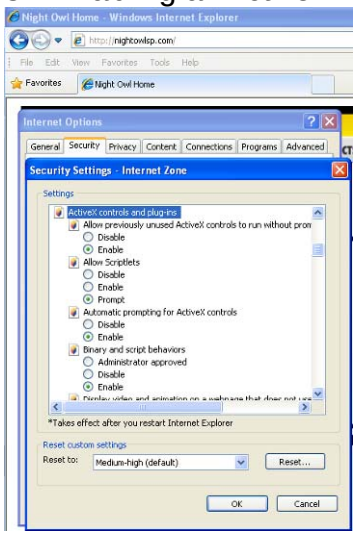
Select Tools
Select Internet Options

Access Custom Security Level


Night Owl Home - Windows Internet Explorer
Internet Options
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted sites
Internet
This zone is for Internet websites, except those listed in trusted and restricted zones.
Security level for this zone
Custom
Custom settings.
- To change the settings, click Custom level.
- To use the recommended settings, click Default level.
Custom level... Default level
Reset all zones to default level
OK Cancel Apply

Select the "Security" tab
Select "Custom Level…"

3. Enabling all Active X Controls



On this page scroll down to the ActiveX Controls and Plug Ins, and set all to either **PROMPT** or **ENABLED**.

To connect to the DVR from a remote computer, you would then open an Internet Explorer browser window and enter the Internet IP of your router that you received by going to **www.myipaddress.com.**

If you get an error message "Program cannot load because the Publisher is unknown" or the program is unsigned, then go to Internet Explorer > Tools > Internet Options, then click on the ADVANCED tab on the top right. This will open the window in, scroll down to "Security", and select on the options to "Allow software to run or install even if the signature is invalid", and "Allow Active Content to Run Files on My Computer".

Warning! It is strongly recommended to return all Internet Explorer Security to its default settings after the Active X Control has been installed. Enabling all Active X controls put your computer at risk of being attacked by malware and spywares.

5.2.10 Basic Setup

To access the BASIC SETUP menu, select Main Menu → SETUP to open the BASIC SETUP menu.

The BASIC SETUP Menu includes: LANGUAGE, DATE/TIME, PASSWORD, and VIDEO/AUDIO.

5.2.10.1 Language

Click "MAIN" → "SETUP" → "LANGUAGE" to setup the default system language.

5.2.10.2 Time Set

Click "MAIN" → "SETUP" → "DATE/TIME" to enter the TIME SETUP window to modify system date, time, date/time format and time zone, DST (day saving time).

- **DATE**: Enter the day, month, and year
- **DATE FORMAT**: Select **DD/MM/YYYY**, **MM/DD/YYYY**, or **YYYY/MM/DD**
- **TIME**: Enter the time
- **TIME FORMAT**: Use the drop-down menu and select **12HOURS** or **24HOURS**

5.2.10.3 Password

Click "MAIN" → "SETUP" → "PASSWORD". This option allows you set the device ID for the DVR and set the system password if you want to use one. Click "APPLY" to save the settings.

.

When you have enabled Password by setting the option to "ON", you can setup a user password and administrator password respectively. The password supports up to 6 characters. Click "APPLY" to save the settings.

NOTE: Please write down your passwords and store in a safe location.

5.2.10.4 Video Setup

Click "MAIN" → "SETUP" → "VIDEO/AUDIO" to setup Video output options such as resolution and format and adjust the output volume of the audio output.

5.2.11 Advanced Setup

To access the ADVANCED SETUP menu, select Main Menu → **ADVANCED** to open the Advanced Setup menu. The available options are: ALARM, INFO, MD (Motion Detect), MOBILE, MAINTAIN, PTZ (Pan-Tilt-Zoom), and HDD (Hard Disk Drive).

5.2.11.1 Alarm Setup

To configure the Alarm mode of each channel, click "Main Menu" → "ADVANCED" → "Alarm" to enter into "ALARM SETUP" menu.

HDD LOSS: Set this to ON if you would like to trigger the alarm when HDD is operating irregularly.

HDD SPACE: Set this to ON if you would like to trigger the alarm when the "HDD Overwrite" option is disabled and the HDD is full.

VIDEO LOSS: Set this to ON if you would like to trigger the alarm when any of the camera signal is distorted or loss.

ALARM MANAGE OUTPUT: Option for the duration of the external alarm after an alarm is triggered (Not Applicable for this particular series of machines).

BUZZER: Option for the duration of the built in buzzer after an alarm is triggered

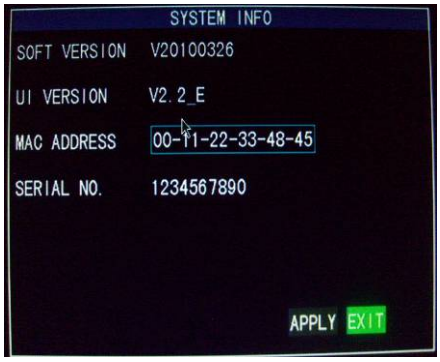
Post Alarm Recording: If "Motion Detect" recording is enabled, this option controls the duration of the recording time after the motion has stopped.

EMAIL SETUP: There is also an option for the DVR to send an e-mail to a specific mails box when the alarm is triggered. To enable this option, follow these steps:

Click the "EMAIL SETUP" button under ALARM SETUP.

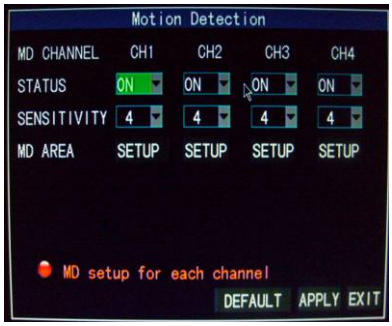
Set the e-mail account information of your mail server. Please contact your Network Administrator for details and configuration settings.

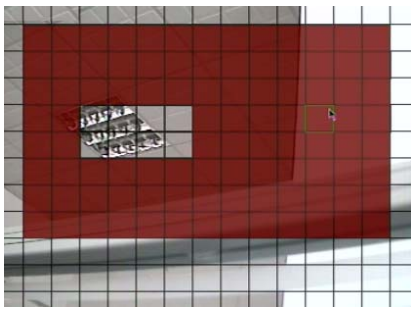
5.2.11.2 System Information



Click "MAIN" → "ADVANCED" → "INFO" to access the system information of your DVR.

5.2.11.3 Motion Detect


Motion Detection
MD CHANNEL CH1 CH2 CH3 CH4
STATUS ON ON ON ON
SENSITIVITY 4 4 4 4
MD AREA SETUP SETUP SETUP SETUP
MD setup for each channel
DEFAULT APPLY EXIT



To configure the Motion Detection function of the DVR, click "MAIN" → "ADVANCED" → "MD" to enter the MOTION DETECT window.
STATUS: This option allows you enable motion detection on the channels.
SENSITIVITY: This option allows you to set sensitivity level of motion detection from 1 to 4 with 4 being the most sensitive.
MD AREA: Click this button of the corresponding channel to select the area you want to have motion detection. The channel is separated into a 13*10 area. When any movements in the selected area are detected, recording or alarm will be triggered. The semi-transparent area means no motion detection will be performed in those areas.

Red = Motion Detection Enabled

Clear = Motion Detection Disabled

NOTE: You can click and drag the mouse cursor when selecting/deselecting the motion area.

5.2.11.4 Mobile Phone Access

If you would like to allow your DVR to be accessible by a Mobile device, click "Main Click "MAIN MENU" → "ADVANCED" → "MOBILE" to open the "MOBILE" menu.
Server Port: It is the mobile monitoring port. Setting range is between 1024 and 65535. Please note that the server port number must not equal to network menu's "PORT" setting.

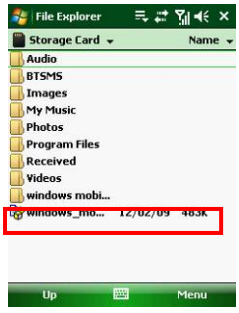
The DVR is currently compatible with mobile phones running Windows® Mobile, Symbian® S60 Version 3 operating systems and iPhones® on 3G networks.

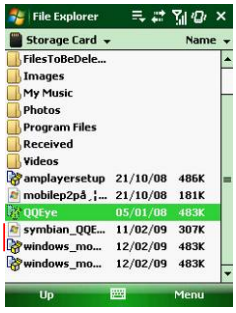
Before you can access the DVR from a mobile phone, you need to setup the Network Configuration on the DVR. Go to section 5.2.8 or 5.2.9 for instructions. You will also need to set the configurations in section 5.2.10.3 and 5.2.11.4.

NOTE: The video speed depends on the speed of the internet connection.

When accessing from a mobile phone with Windows Mobile operating system, follow these procedures:

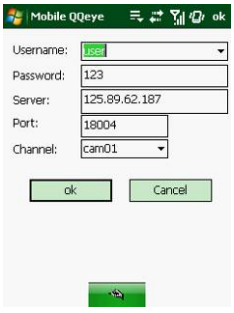
1. Install the webcam program that is included on the supplied CD by copying the "QQeye.CAB" file to the mobile phone. You can do this by attaching the mobile phone to a computer and copying the file from the CD to the phone.





2. Click the windows mobile folder and choose the file "QQeye" Select the file which will open the window. The file is generally default to save to the Device's built-in memory, but you can choose to save it to Storage Card.
3. Choose storage location and click "Install" to start the installation.

4. After installation finishes, click the icon named QQeye to run the program. This will display the program screen.
5. Click the "Setting" button to enter the Setting menu.

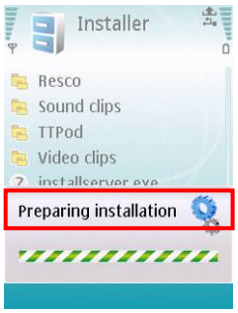


User name: same as the user name setup in DVR under section 5.2.10.3.
Password: same as the password setup in DVR under section 5.2.10.3.
Server address: Enter the Public IP or DDNS address of your DVR.
Web port: Same as the Server Port you set in the DVR under section 5.2.11.4.
Channel: Select the channel you want to monitor and click "OK" to display the screen to start viewing the live image.

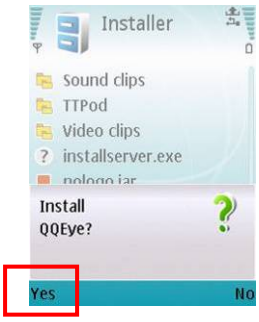
6. To stop viewing the live video, click the "Disconnect" button or click the "Setting" button to modify the settings.

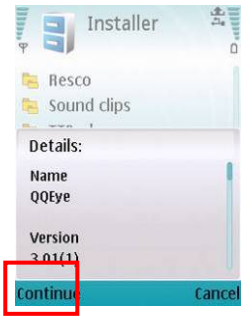
When accessing from a mobile phone with Symbian® S60 Version 3 operating system, follow these procedures:

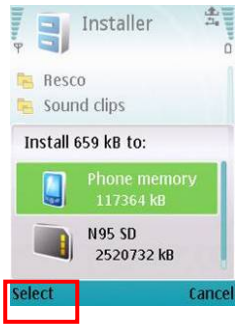
1. Install the webcam program that is included on the supplied CD by copying the "QQeye.SISX" file to the mobile phone. You can do this by attaching the mobile phone to a computer and copying the file from the CD to the phone.
2. Select the QQEye icon in this window to install it.



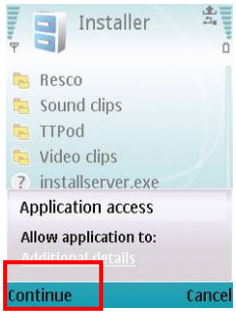
3. After the phone finishes copying the file, it will ask for permission to install the program. Select "Yes" to start the installation.

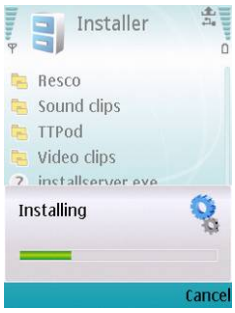


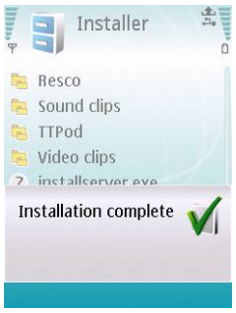




4. Click the "Continue" button on the information box displaying the program and current version.
5. Select the location of where you want to install the program, to phone memory or to the memory card, and then click "Select".
6. Click "Continue" and wait for the program to install.





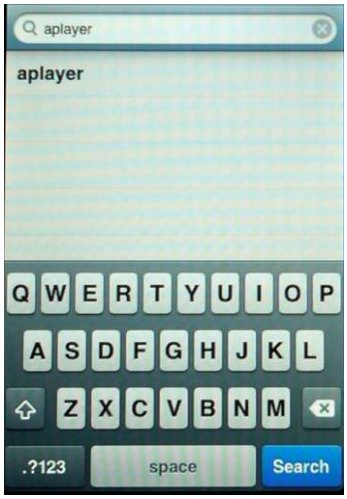


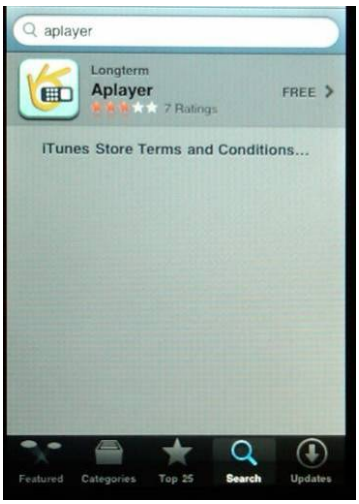
7. Once the installation is complete, go to the Applications folder and select the "QQEye" program, and click "Open" to display the settings menu.

Default Access Point：Input the access point. System default for the access point is GPRS connection.
Server Address：Enter the Public IP or DDNS address of your DVR.
Server Port：Same as the Server Port you set in the DVR under section 5.2.10.3.
User Name: same as the user name setup in DVR under section 5.2.10.3.
Password：same as the password setup in DVR under section 5.2.11.4.
Channel: Select the channel you want to monitor and click "DONE" to display the screen to start viewing the live image.

When accessing from a mobile phone with an iPhone® follow these procedures:

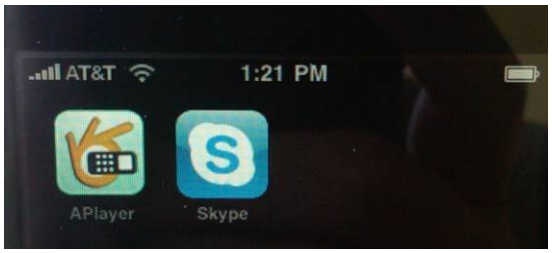
1. From you iPhone® Select "App Store" from your home screen.
2. Select the Search icon.
3. Type: "aplayer" in the search field



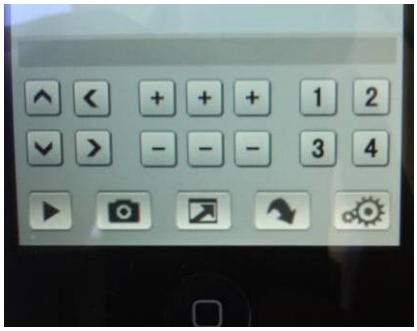


4. Select the "Aplayer" application just below the search feature
5. Click on "Free".
6. Click Install.
7. Follow the on screen instructions to complete the installation.

8. Once installed click on the application icon in your iPhone® home screen to open the application.



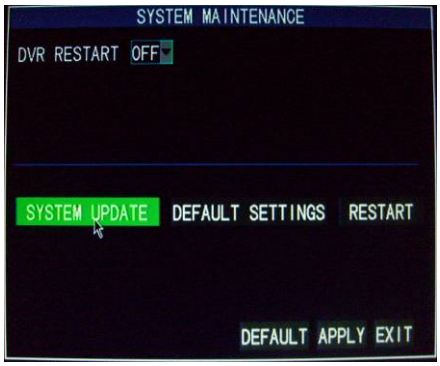
9. Select the Settings icon on the bottom right and input your Server IP, Mobile Port number and Password (See Section 5.2.11.4 Mobile)



10. You will now be watching a live streaming video of your security camera on your iPhone®. Enjoy!

NOTE: If you are having trouble accessing your DVR from your cell phone please visit www.NightOwlSP.com to ensure you are using the most up to date software. If your phone is not compatible with the above list please check our website once again to see if your phone is listed.

5.2.11.5 System Maintenance



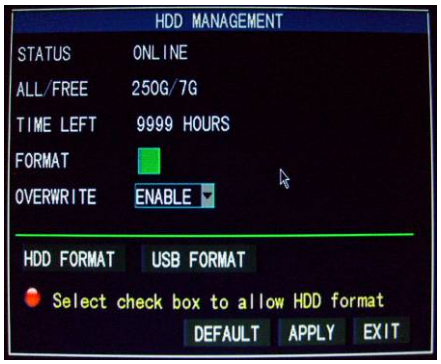
Click "MAIN" → "ADVANCED" → "MAINTAIN" to access the SYSTEM MAINTENANCE page of your DVR. This option allows you reset the DVR to factory default settings, update system software (firmware), and set system auto-maintenance. When enabling the auto-maintain function, you can setup system to restart regularly to clear up some temporary storage memory.

5.2.11.6 PTZ Setup

PTZ SETUP
CHANNEL CH1 CH2 CH3 CH4
PROTOCOL PELCO-D PELCO-D PELCO-D PELCO-D
BAUD RATE 9600 9600 9600 9600
DATA BIT 8 8 8 8
STOP BIT 1 1 1 1
VERIFY ODD ODD ODD ODD
ADDRESS 001 001 001 001
DEFAULT APPLY EXIT

To configure the PTZ (Pan Tilt Zoom) function, click "MAIN MENU" → "ADVANCED" → "PTZ". The cameras that come with the kit do not support PTZ function, please refer to the user's manual of your PTZ cameras for proper settings. Please note the above mentioned channel settings must match the settings of the PTZ camera.

5.2.11.7 HDD Management



To manage the installed Hard Disk, click "Main Menu" → "ADVANCED" → "HDD" to enter "HDD MANAGEMENT". The HDD Management screen shows the capacity and available recording time of the installed hard drive and let you configure whether to overwrite old recordings or stop when HDD is full.

Select "HDD Format" to format the installed Hard Disk Drive and erase all recorded files.

Select "USB Format" to format the installed USB Drive by erasing all recorded files on the drive.

To enable your DVR to overwrite old recording files, choose "ENABLE" at the OVERWRITE field and then click Apply.

5.2 KEYLOCK

Select this option to activate the password protection. You will need to first setup the User and Admin Password before you can apply this option.

5.3 CHANNEL SWITCH

Click pop-up menu -> CHN SWITCH to open the sub menu. Choose display between Quad or any of the individual channel in full screen.

5.4 Video Search

Click pop-up menu video search to open the "Video Search" menu to search for files and playback recordings.

5.5 PTZ Control

Click pop-up menu to show the PTZ option and open the PTZ control interface. You can now click Z+ & Z- keys to zoom In or out, click F+ & F- keys to control camera focus and click I+ & I- to adjust the focus point.

5.6 MUTE

When you want to disable the audio output of your DVR, click "MUTE" of the Pop-up menu.

5.7 MANUAL REC

If you want to start manual recording, click "MANUAL REC" on the Pop-up menu or the "MANUAL REC" button.

5.6 Stop recording

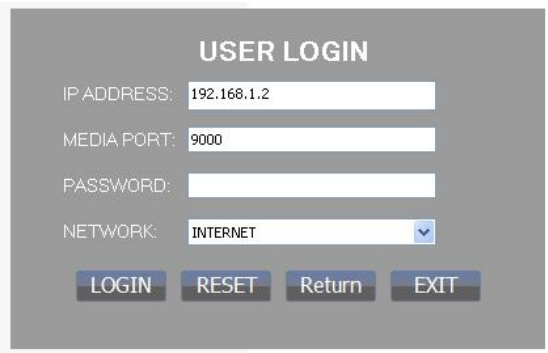
If you want to stop manual recording, click "STOP REC" on the Pop-up menu or the "STOP REC" button.

CHAPTER 6: NET-VIEWER PROGRAM

Open Internet Explorer and enter the IP Address or DDNS address of your DVR. A pop-up will ask you to install an ActiveX (plug-in) to your computer. Please confirm the download and install the software.

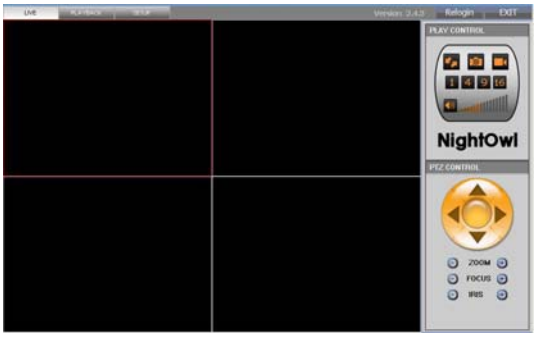
Reminder: If the ActiveX (plug-in) is not downloaded successfully, please check if your browser's safety level or firewall setting is set properly (as stated above). Please also make sure all of the setup of your modem or router is setup properly.

6.1 Log-in to Net-Viewer



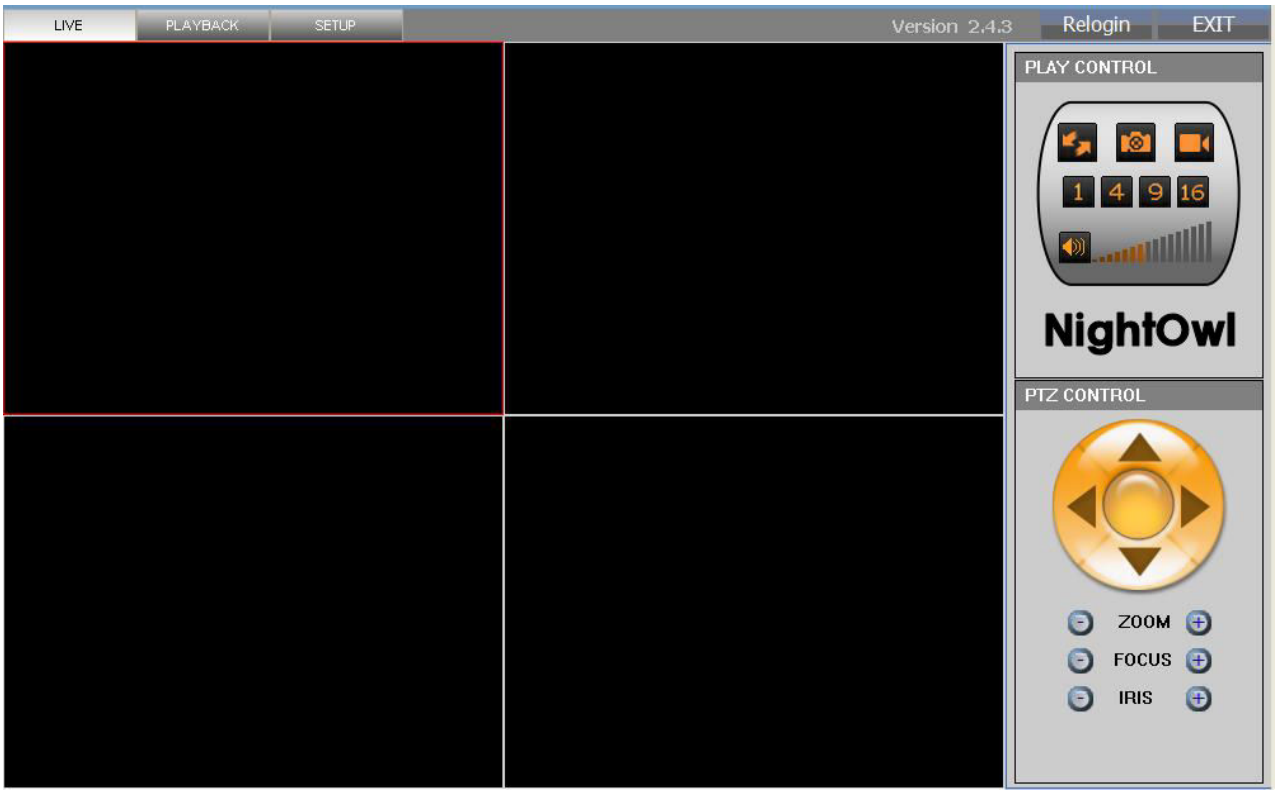
After the ActiveX (plug-in) is installed, please select the log-in language (Chinese or English) and enter the login information. Click the "LOGIN" button to view remotely through NetViewer.

Please note default password is empty. System allows Administrator to set new password as per section 5.2.8.4.



After successfully Logged in to Net-Viewer, system will open the live display interface and connect to audio/video feed automatically.

6.2 Main Interface of Net-viewer



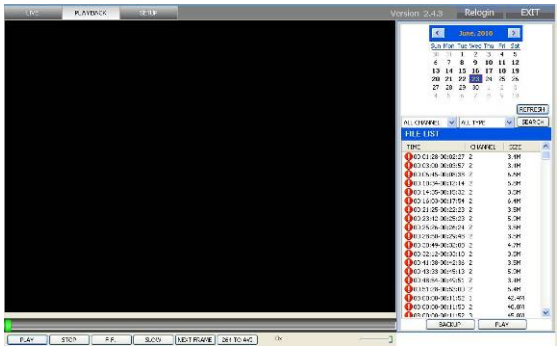
6.2.1 Menu column

Menu column includes "LIVE", "REPLAY", "SETUP" and "LOGOUT".

6.2.1.1 Live

After Logging-in to system, system will enter into Live display.

6.2.1.2 Playback



This option allows you to playback recordings remotely.

1. Select the day, channel and type and proceed searching and refreshing.
2. Select any event from search result list to playback.

Below are some explanations of the buttons.

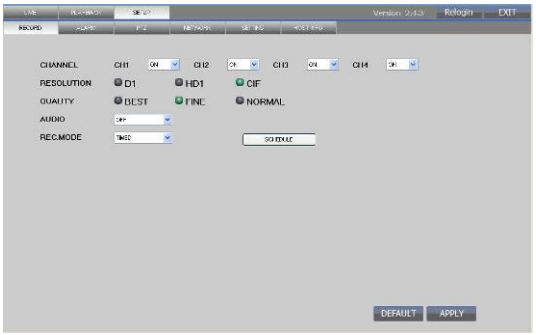
Play: [Play]/[Pause]
Stop: stop playing recording.
F.F.: fast forward playback recording
Slow: slow playback recording.
Next Frame: play frame by frame.
264 TO AVI button: convert file from H.264 format to AVI format

The native format of the backup files is H.264, you can convert H.264 format into AVI format by clicking the key of 264 to AVI.

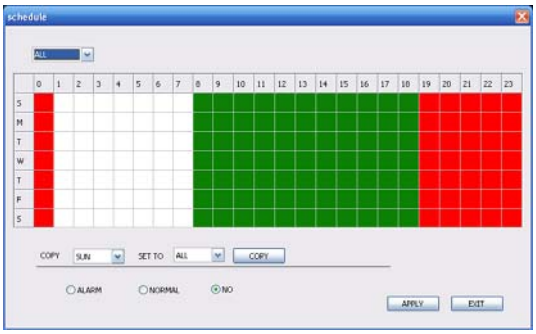
6.2.1.3. Setup

Click "SETUP" open this sub menu, option in this menu includes "Recording Mode", "Alarm Mode", "PTZ Control", "Network Setting", "System Setting" and "Host Info" .

Record

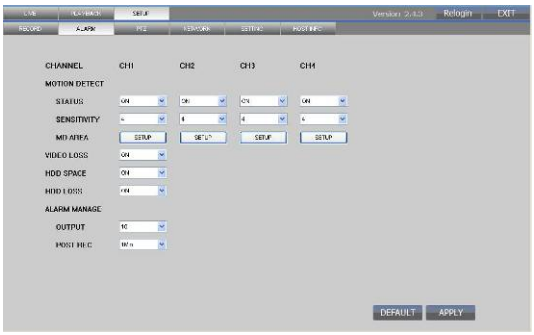


Open sub menu "Recording Mode", you can select on/off for every channel, and adjust recording parameters (resolution, quality, audio, REC mode and Schedule) remotely via Net-Viewer.

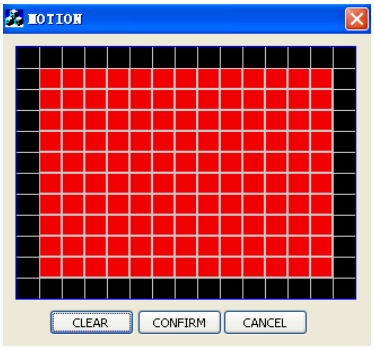


Open "Schedule" sub menu to.
Set up the recording schedule using this option.

Alarm

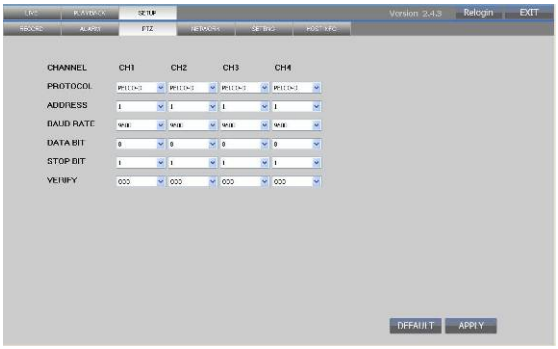


Open sub menu "Alarm".
You can set I/O alarm for every channel, motion detection alarm, motion recording, motion trace, motion sensitivity, video loss alarm, HDD not enough space alarm, HDD not found alarm and alarm output time etc.



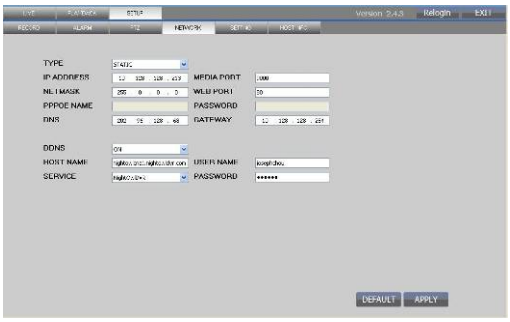
This option allows you set motion detection settings for each channel of the DVR remotely.

PTZ Control



Open" PTZ Control" sub menu. Remotely setup methods are the same as configuring on the DVR.

Network

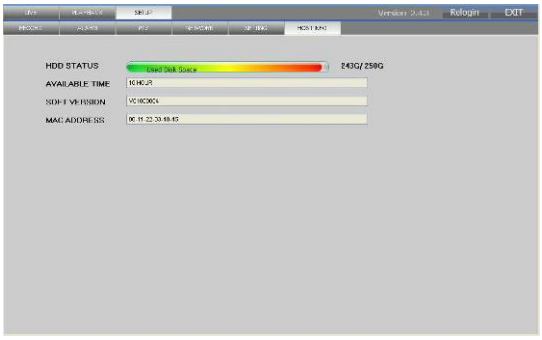


Open "Network" to enter the "Network" sub menu. Remote setup methods are the same as configuring on the DVR.

Setting

Open "Setting" sub menu to open the menu. Click […] button to preview Net-Viewer's recorded file saving path and screen capture saving path. The menu also allows you to set a lower bandwidth for Internet video transmission, set user password, turn daylight saving time on/off, etc.

Host Info



Open "Host Info." to open the sub menu. You can check usage rate of HDD, available recording time, software version and MAC address.

6.2.1.4 Log out

Log out of the system.

6.2.2 PTZ Control

1. **PTZ direction control:** Control PTZ moving direction
2. **Zoom, Focus and Iris Control:** control direction, zoom, focus and iris of PTZ.
3. **Presetting bit Control -**

CUR：display current presetting bit or input a presetting bit you would like to fix at according to the edit box。

Load：Load one previous setting you have saved last time.

Save: Save setting.

Set: Set presetting bit parameter

GOTO: on the preview mode, please input a setting for presetting bit no and click "GOTO" button to preview the setting.

Clean: clear presetting bit setting

Cruise: control cruise status (including on and off).

6.2.3 Live Play Control

1. On / Off Live display [ ]：When Live display status is "On", Clicking the button closes Live display. When "Off" clicking the button opens the Live display.

2. Capture [ ]：Capture Screen image and save to PC as *bmp image.

3. Recording [ ]：Operate DVR recording remotely

4. Channel display [ ]：The icons stand for Single Channel display, Quad Channel display, 3x3 Channel display and 4x4 Channel display respectively.

5. Volume control [ ] Click or slide the control bar to adjust sound volume.

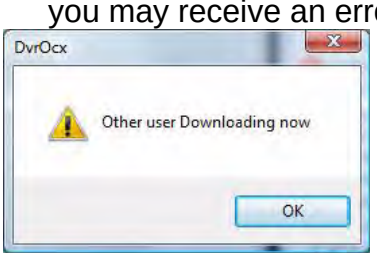
6.2.4 Remote Backup

You can backup recorded video files from your system to your PC using the Replay menu in the remote surveillance software.

To backup files remotely:

1. Click **REPLAY** at the top of the main screen.
2. Select a date(s) on the calendar and click **REFRESH**.
3. Double-click a file from the File List to begin playback.
4. Click **BACKUP**. Backup begins to C:/DVR/[ip_address]/Backup

NOTE: If you playback a file, you must wait for the file to load before backing it up, otherwise you may receive an error message



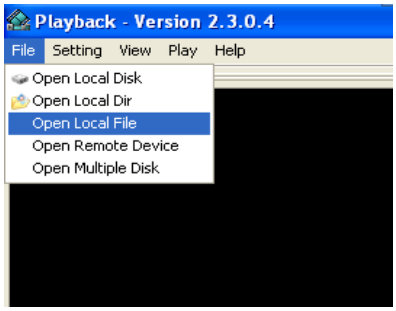
5. When file backup is complete, click **OK** in the confirmation window. The confirmation window show the save path of the backup file.

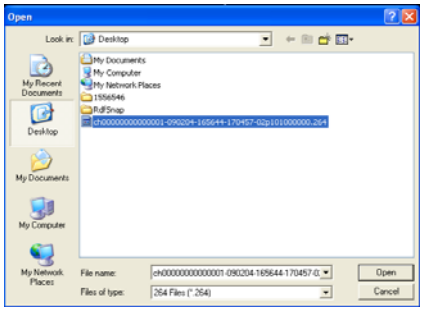
NOTE: Backup files are saved as .264 files.
NOTE: Use the Player Software included on the software CD to playback backed up video.

6.2.5 Multi Player File format

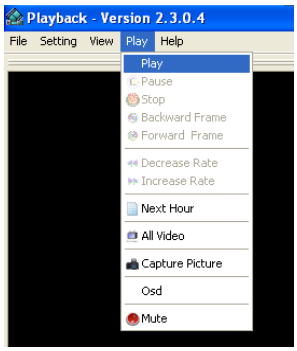
1. If you would like to play any recorded file using video players that supports .avi format, first, copy or backup file to your PC.
2. Open the multimedia player installed on your computer, click File→ Open Local File, to find/select the backup file, and then click "Open".

Note: the file type you have selected should be *.264 format.





3. Open backup file, click the "Play" menu to play the file.



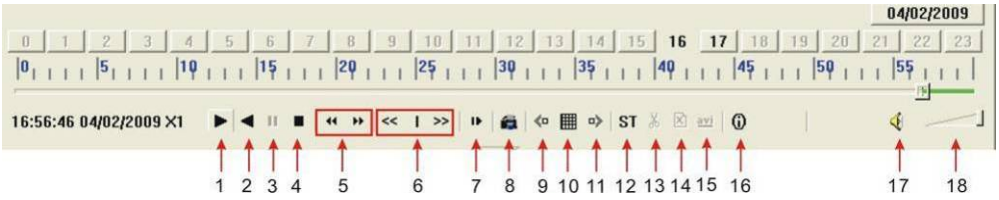
4. Click pop-up menu button on the bottom of multimedia player and click "Play ( )" button, then the backup file will be played accordingly.

At the upper right hand corner, the date of when the file was recorded will be displayed.

At the lower left hand corner, the 24H recording time is shown.

The control buttons for video playback is at the bottom of the screen.

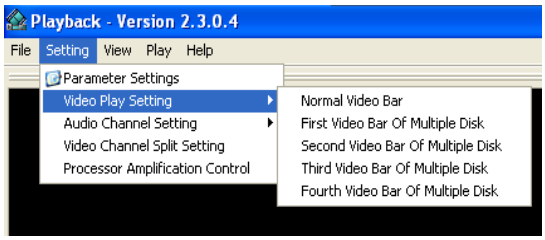
The current playing point of the video file is shown above the control buttons.

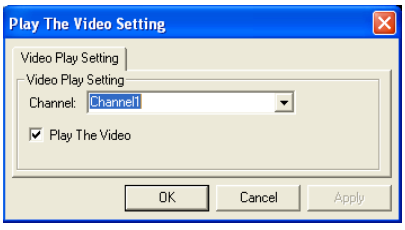


Recording date and time processing for the current recording file

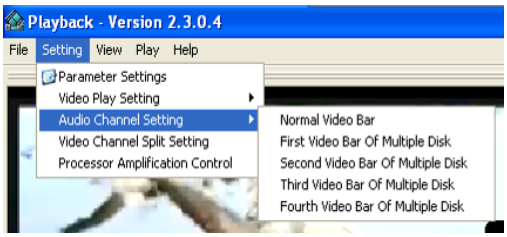
1	Play	10	All the windows
2	Previous recording file	11	Add window
3	Pause	12	Start
4	Stop	13	Cut
5	Previous frame / Next frame	14	Delete
6	Slow play, Normal play, Fast	15	Convert AVI
7	Next Hour	16	OSD
8	Capture picture	17	Mute switch
9	Reduce window	18	Volume adjust

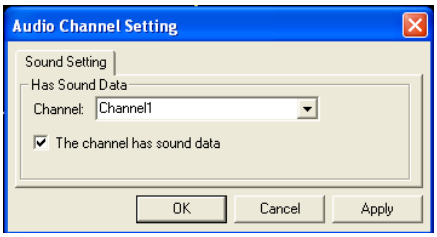
5. To enable a specific channel video to play, select "Setting" → "Video Play Setting" → "Normal Video Bar". Select the channel you want to enable/disable, and check the check box to enable the channel.





6. To enable a specific channel's audio, select "Setting" → "Audio Channel Setting" → "Normal Video Bar". Select the channel you want to enable/disable, and check the check box to enable the channel.





Please restart the multimedia player after the configuration is changed.

WARRANTY

NIGHT OWL, LLC ("Night Owl") provides the following warranty to the original retail purchaser only (the "Purchaser") with respect to this product (the "Product"):

For a period of one (1) year after the date of sale, the Product shall be free from manufacturing defects in material and workmanship. In the event that the Product is defective, the Purchaser must return the Product at Purchaser's cost (no CODs) to the address below, with the original proof of purchase receipt. In its sole discretion, Night Owl will either repair or replace the Product at no additional cost to the Purchaser. Any replacement Product (or parts) will be covered by the same warranty as the original Product through the expiration date of the original warranty period.

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- Negligent use of the Product, or misuse or abuse of the Product;
- Electrical short circuits or power surges;
- Use of replacement parts not supplied by Night Owl;
- Product is either tampered with, modified, or repaired by another service provider;
- Product has not been maintained in accordance with the instructions;
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In order to obtain service, please make sure that you have registered your product on-line no later than thirty (30) days after purchase at www.NightOwlSP.com in the warranty registration section or in any other matter described in the instructions.

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